

Title (en)
Spark plug

Title (de)
Zündkerze

Title (fr)
Bougie d'allumage

Publication
EP 1383214 B1 20110824 (EN)

Application
EP 03254453 A 20030715

Priority
JP 2002206692 A 20020716

Abstract (en)
[origin: EP1383214A2] A front end portion of a center electrode 3 is a circular cylindrical center-electrode noble-metal ablation resistance portion 31 whose radius r mm and length l mm are determined in such a manner as to satisfy $5 \leq l/r \leq 20$. An ignition-performance-improving ground electrode 4 is configured such that a distal end portion thereof is bent in a direction toward the center electrode 3; and a rear end-edge 32t of a distal end surface 4s, 32s is located frontward in relation to a front end surface 31a of the center-electrode noble-metal ablation resistance portion 31. In orthogonal projection on a projection plane P perpendicularly intersecting an axis O of the center electrode 3, the rear end-edge 32t is located outward in relation to the front end surface 31a of the center-electrode noble-metal ablation resistance portion 31. A portion of the ignition-performance-improving ground electrode 4 which includes at least the rear end-edge 32t is a ground-electrode noble-metal ablation resistance portion 32.

IPC 8 full level
H01T 13/20 (2006.01); **H01T 13/32** (2006.01); **H01T 13/34** (2006.01); **H01T 13/39** (2006.01)

CPC (source: EP US)
H01T 13/32 (2013.01 - EP US); **H01T 13/39** (2013.01 - EP US)

Cited by
US6798124B2; DE102004021876B3; CN102160247A

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DE FR GB

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EP 1383214 A2 20040121; **EP 1383214 A3 20090902**; **EP 1383214 B1 20110824**; JP 2004055142 A 20040219; JP 4125060 B2 20080723; US 2004012318 A1 20040122; US 6864623 B2 20050308

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